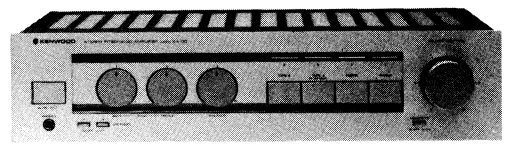
KA-50



SPECIFICATIONS

Power output

45 watts* per channel minimum RMS, both channels driven, at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.09% total harmonic distortion.

Total Harmonic Distortion

AUX input to SPEAKER output

(20 Hz to 20.000 Hz) . . . . 0.09% at rated power into 8 ohms

(20 Hz to 20.000 Hz) . . . . 0.06% at 1/2 rated power into 8 ohms

PHONO input to SPEAKER output(1 kHz) . . . . . 0.06% at rated power with VOLUME – 20 dB

Intermodulation Distortion (60 Hz:7 kHz = 4:1) . . . 0.06% at rated power into 8 ohms

Damping Factor . . . . . 30 (1 kHz into 8 ohms)

Power Bandwidth . . . . . 20 Hz to 35.000 Hz at 0.2% T.H.D.

Frequency Response . . . . . 10 Hz to 70 kHz, +0 dB – 3 dB

Input Sensitivity/Inpedance

Phono . . . . . 2.5 mV/50 ohms

Tuner,AUX,Tape . . . . . 150 mV/30k ohms

Signal-to-Noise Ratio(IHF.A)

Phono . . . . . 72dB for 2.5 mV input
78 dB for 5.0 mV input
84 dB for 10 mV input

Tuner,AUX,Tape . . . . . 100dB for 150mV input

Phono Maximum Input Level . . . 170 mV (RMS), T.H.D. 0.05% at 1,000 Hz

Output Level/Inpedance

Tape REC(Pin) . . . . . 150 mV/2.2 k ohms

Phono Frequency Response . . . RIAA standard curve ±0.3 dB (20 Hz to 20.000 Hz)

Tone Control

Bass . . . . . ±10 dB at 100 Hz

Treble . . . . . ±10 dB at 10 kHz

Loudness Control . . . . . +9 dB at 100 Hz (at –30dB VOLUME Level)

GENERAL

Power Requirements . . . . . 60 Hz 120 V(U.S.A. & Canada Model) or 50/60 Hz 110~120 V/220~240 V switchable

Power Consumption . . . . . 1.8A(UL and CSA)
150 W
180 W(8 ohms at rated power)
38 W(No signal)

A.C. Outlet . . . . . Switched 2, Unswitched 1

Dimensions . . . . . W 440 mm (17-5/16")
H 109 mm (4-19/64")
D 249 mm (9-51/64")

Weight . . . . . 5.5 Kg(12.1 lbs)

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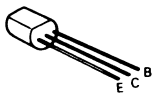
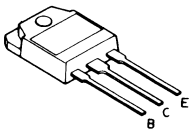
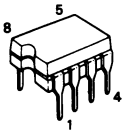
2SA733 2SC945
2SA794 2SC1567
2SA921 2SC1845
2SA992 2SC2003
2SA999 2SC2320
2SA1110 2SC2590



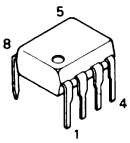
2SC2579
2SC2580



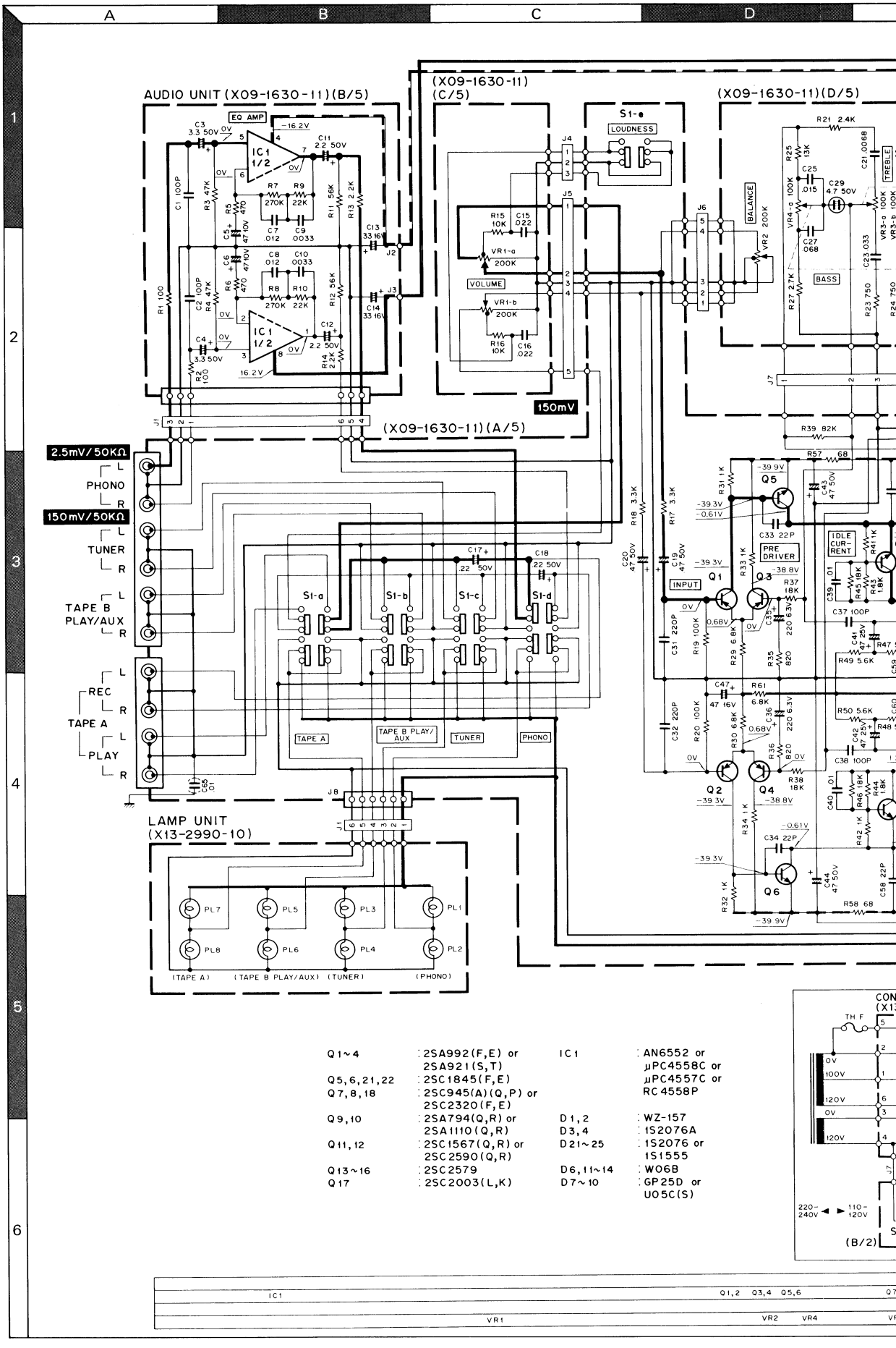
AN6552



RC4558P
μPC4557C
μPC4558C



Semiconductor Substitutions	
Name	Substitutions
2SA733(A)	2SA999
2SA794(Q,R)	2SA1110(Q,R)
2SA992(F,E)	2SA921(S,T)
2SC945(A)(Q,P)	2SC2320(F,E)
2SC1567(Q,R)	2SC2590(Q,R)
2SC1845(F,E)	2SC2003
2SC2003(L,K)	2SC1885
2SC2579	2SC2580
AN6552	μPC4558C
	μPC4557C
	RC4558P

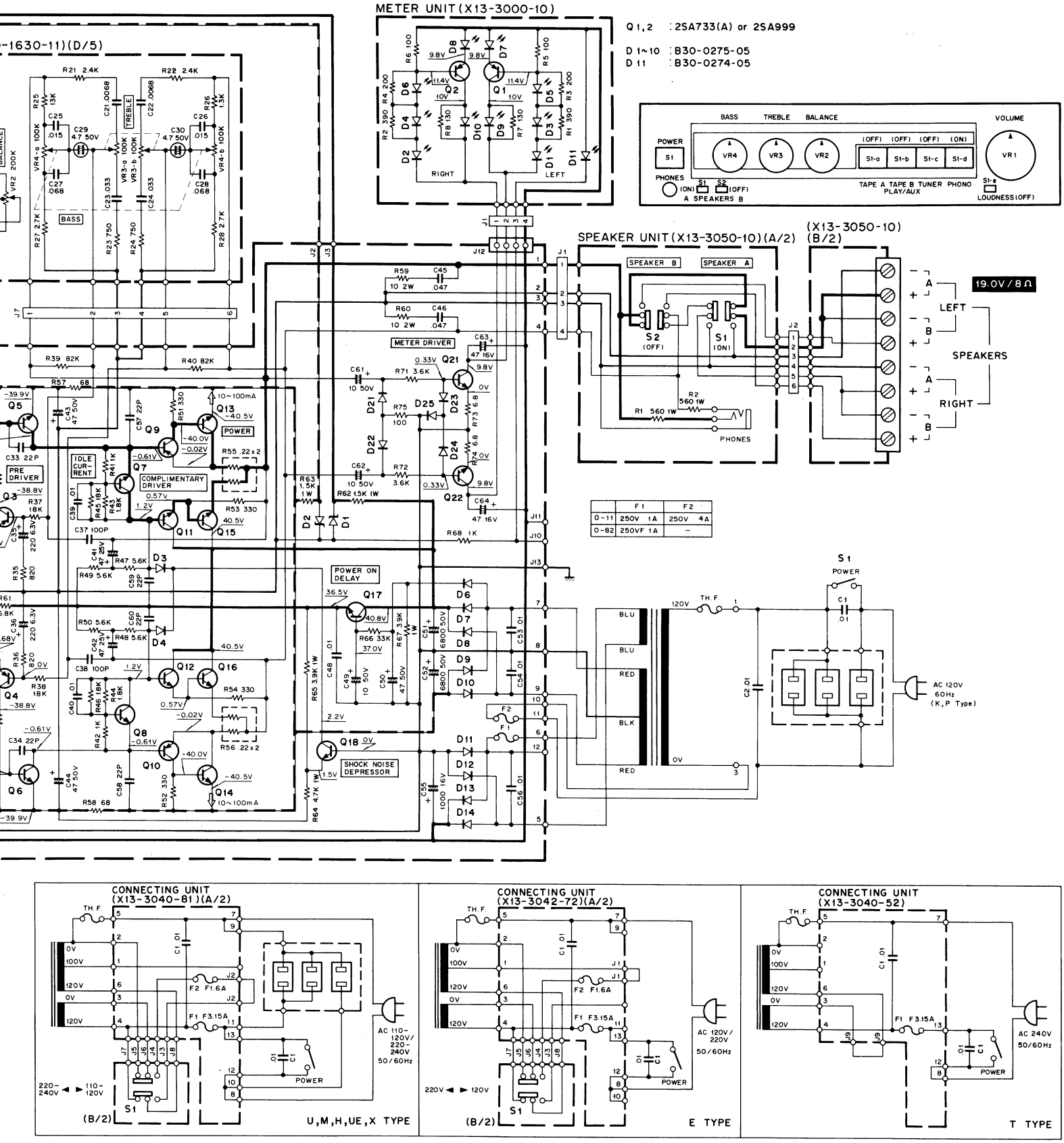


Q1~4	: 2SA992(F,E) or 2SA921(S,T)	IC1	: AN6552 or μPC4558C or μPC4557C or RC4558P
Q5,6,21,22	: 2SC1845(F,E)		
Q7,8,18	: 2SC945(A)(Q,P) or 2SC2320(F,E)		
Q9,10	: 2SA794(Q,R) or 2SA1110(Q,R)	D1,2	: WZ-157
		D3,4	: 1S2076A
Q11,12	: 2SC1567(Q,R) or 2SC2590(Q,R)	D21~25	: 1S2076 or 1S1555
Q13~16	: 2SC2579	D6,11~14	: W06B
Q17	: 2SC2003(L,K)	D7~10	: GP25D or U05C(S)

IC1	Q1,2	Q3,4	Q5,6	Q7
VR1		VR2	VR4	

INTEGRATED AMPLIFIER

D | E | F | G | H | I

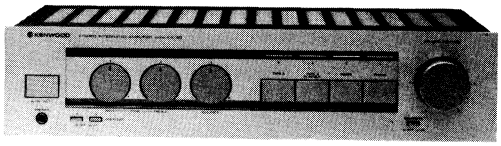


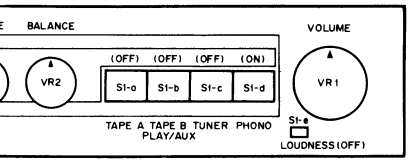
						D2,4,6	Q2 D8,10	Q1 D7,9	D1,3,5	D11
3,4	Q5,6		Q7,8	Q9~12	Q13~16		Q18	Q17	Q21,22	
			D3,4				D2 D1	D21,22	D23~25 D6~14	
VR2	VR4		VR3		VR4					

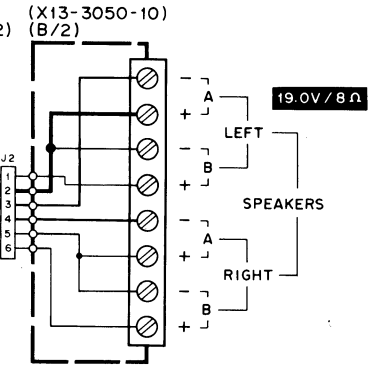
KA-50(K)

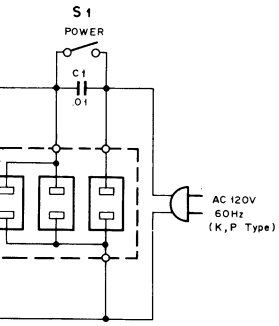
DC voltages are measured by a VOM with 25kΩ/V input impedan

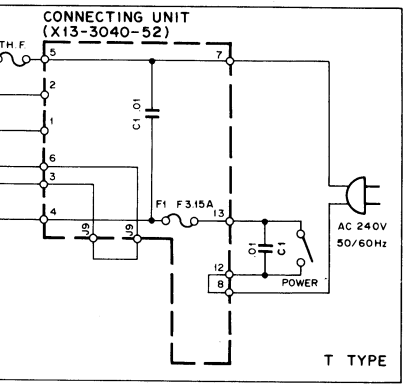
KA-50











KA-50(K)

sured by a VOM with 25kΩ/V input impedance.

SPECIFICATIONS

Power output

45 watts* per channel minimum RMS, both channels driven, at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.09% total harmonic distortion.

Total Harmonic Distortion

AUX input to SPEAKER output

(20 Hz to 20.000 Hz) . . . . .0.09% at rated power into 8 ohms

(20 Hz to 20.000 Hz) . . . . .0.06% at 1/2 rated power into 8 ohms

PHONO input to SPEAKER output(1 kHz) . . . . . .0.06% at rated power with VOLUME – 20 dB

Intermodulation Distortion . . . .0.06% at rated power into 8 ohms

(60 Hz:7 kHz = 4:1)

Damping Factor . . . . . .30 (1 kHz into 8 ohms)

Power Bandwidth . . . . . .20 Hz to 35.000 Hz at 0.2% T.H.D.

Frequency Response . . . . . .10 Hz to 70 kHz, +0 dB – 3 dB

Input Sensitivity/Inpedance

Phono . . . . . .2.5 mV/50 ohms

Tuner,AUX,Tape . . . . . .150 mV/30k ohms

Signal-to-Noise Ratio(IHF,A)

Phono . . . . . .72dB for 2.5 mV input
78 dB for 5.0 mV input
84 dB for 10 mV input

Tuner,AUX,Tape . . . . . .100dB for 150mV input

Phono Maximum Input Level . . .170 mV (RMS), T.H.D. 0.05% at 1,000 Hz

Output Level/Inpedance

Tape REC(Pin) . . . . . .150 mV/2.2 k ohms

Phono Frequency Response . . . .RIAA standard curve ±0.3 dB (20 Hz to 20.000 Hz)

Tone Control

Bass . . . . . .±10 dB at 100 Hz

Treble . . . . . .±10 dB at 10 kHz

Loudness Control . . . . . .+9 dB at 100 Hz (at –30dB VOLUME Level)

GENERAL

Power Requirements . . . . . .60 Hz 120 V(U.S.A. & Canada Model) or 50/60 Hz 110~120 V/220~240 V switchable

Power Consumption . . . . . .1.8A(UL and CSA)
150 W
180 W(8 ohms at rated power)
38 W(No signal)

A.C. Outlet . . . . . .Switched 2, Unswitched 1

Dimensions . . . . . .W 440 mm (17-5/16")
H 109 mm (4-19/64")
D 249 mm (9-51/64")

Weight . . . . . .5.5 Kg(12.1 lbs)

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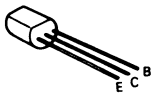
2SA733 2SC945
2SA794 2SC1567
2SA921 2SC1845
2SA992 2SC2003
2SA999 2SC2320
2SA1110 2SC2590



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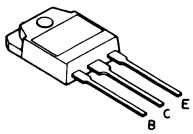
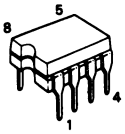
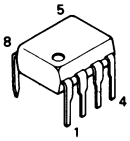
2SC2580



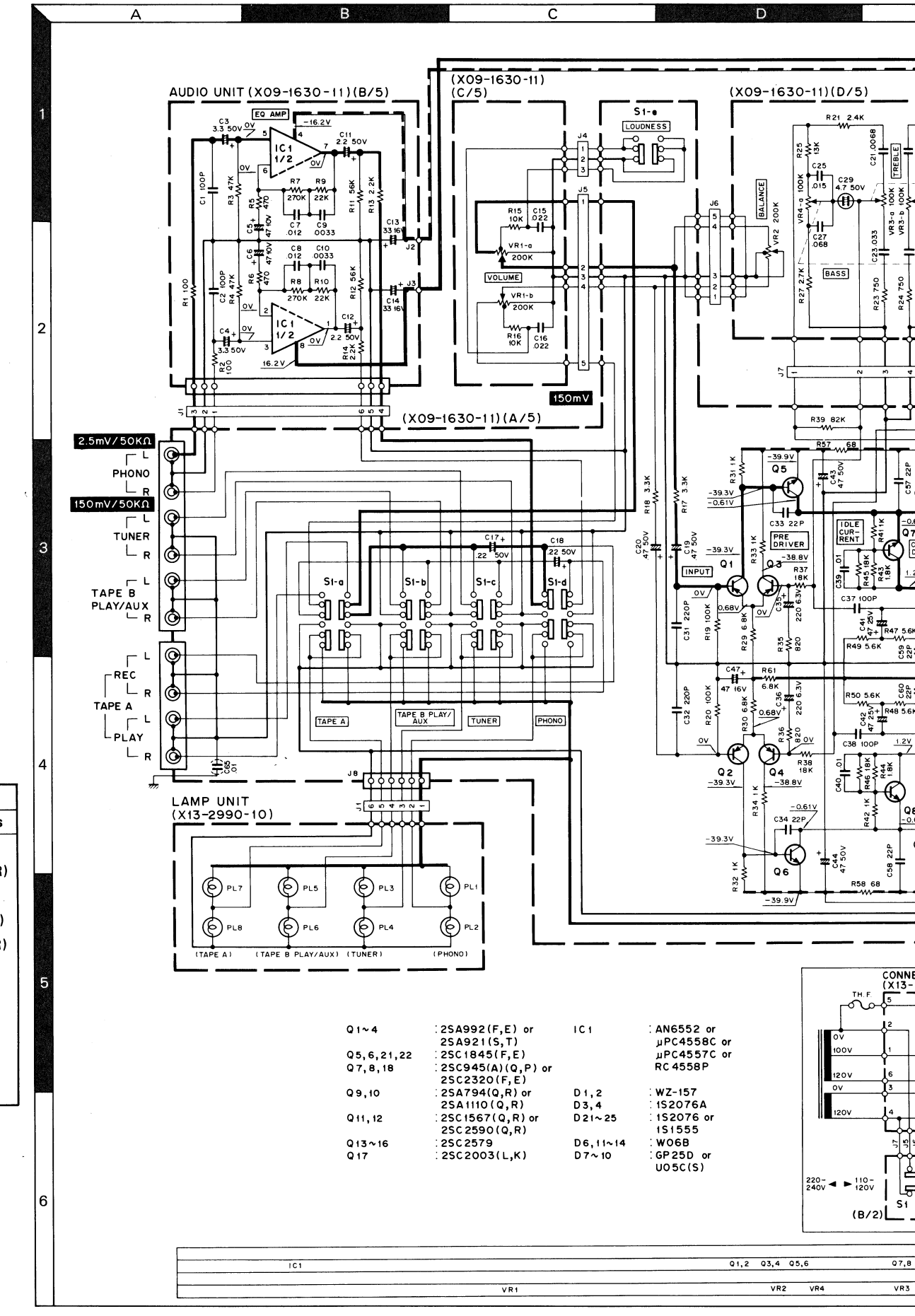
AN6552



RC4558P
μPC4557C
μPC4558C



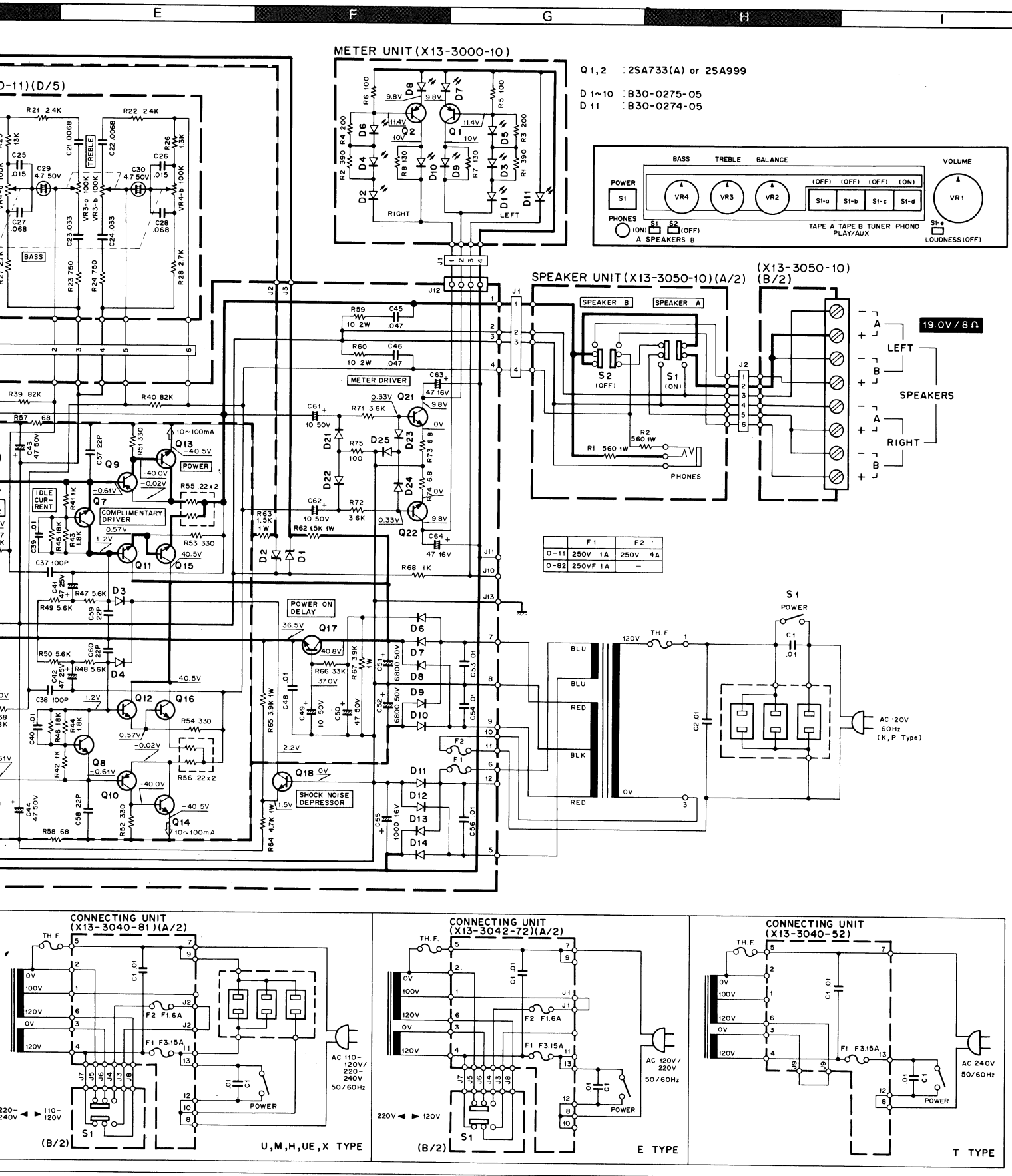
Semiconductor Substitutions	
Name	Substitutions
SA733(A)	2SA999
SA794(Q,R)	2SA1110(Q,R)
SA992(F,E)	2SA921(S,T)
SC945(A)(Q,P)	2SC2320(F,E)
SC1567(Q,R)	2SC2590(Q,R)
SC1845(F,E)	2SC2003
SC2003(L,K)	2SC1885
SC2579	2SC2580
AN6552	μPC4558C
	μPC4557C
	RC4558P



Q1~4	: 2SA992(F,E) or 2SA921(S,T)	IC1	: AN6552 or μPC4558C or μPC4557C or RC4558P
Q5,6,21,22	: 2SC1845(F,E)		
Q7,8,18	: 2SC945(A)(Q,P) or 2SC2320(F,E)		
Q9,10	: 2SA794(Q,R) or 2SA1110(Q,R)	D1,2	: WZ-157
		D3,4	: 1S2076A
Q11,12	: 2SC1567(Q,R) or 2SC2590(Q,R)	D21~25	: 1S2076 or 1S1555
Q13~16	: 2SC2579	D6,11~14	: W06B
Q17	: 2SC2003(L,K)	D7~10	: GP25D or U05C(S)

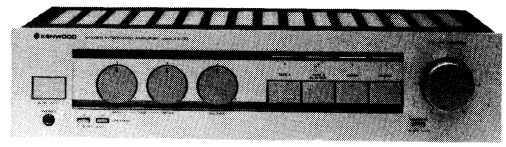
IC1		Q1,2 Q3,4 Q5,6		Q7,8
VR1		VR2	VR4	VR3

INTEGRATED AMPLIFIER



DC voltages are measured by a VOM with 25kΩ/V input impedance.

KA-50



SPECIFICATIONS

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PHONO input to SPEAKER output(1 kHz) . . . . . .0.06% at rated power with VOLUME – 20 dB

Intermodulation Distortion . . . .0.06% at rated power into 8 ohms

(60 Hz:7 kHz = 4:1)

Damping Factor. . . . . .30 (1 kHz into 8 ohms)

Power Bandwidth . . . . . .20 Hz to 35.000 Hz at 0.2% T.H.D.

Frequency Response . . . . . .10 Hz to 70 kHz, +0 dB – 3 dB

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Tuner,AUX,Tape . . . . . .100dB for 150mV input

Phono Maximum Input Level . . .170 mV (RMS), T.H.D. 0.05% at 1,000 Hz

Output Level/Inpedance

Tape REC(Pin) . . . . . .150 mV/2.2 k ohms

Phono Frequency Response . . . .RIAA standard curve ±0.3 dB (20 Hz to 20.000 Hz)

Tone Control

Bass. . . . . .±10 dB at 100 Hz

Treble . . . . . .±10 dB at 10 kHz

Loudness Control . . . . . .+ 9 dB at 100 Hz (at –30dB VOLUME Level)

GENERAL

Power Requirements . . . . . .60 Hz 120 V(U.S.A. & Canada Model) or 50/60 Hz 110~120 V/220~240 V switchable

Power Consumption . . . . . .1.8A(UL and CSA)
150 W
180 W(8 ohms at rated power)
38 W(No signal)

A.C. Outlet . . . . . .Switched 2, Unswitched 1

Dimensions . . . . . .W 440 mm (17-5/16")
H 109 mm (4-19/64")
D 249 mm (9-51/64")

Weight . . . . . .5.5 Kg(12.1 lbs)

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